eCall™ User's Guide

HTTP/HTTPS-Access

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1 Introduction

eCall's **HTTP** access allows you to directly call up a URL, in order to send messages to various callsystems. There is also the option of **HTTPS** access. The advantage is that data can be transferred in an encrypted/encoded form.
The following information is only referring to HTTP access. Unless otherwise specifically stated, the same instructions also apply for HTTPS access.

2 Requirements for HTTP-Access

In order for messages to be sent through the HTTP-interface, the following requirements apply:

- You must have a Business account with eCall.
- Access via URL must be set up in your Business account.
- Your software must be able to call up via URL in order to send messages.

3 Protocol

The processing of a transmission order to eCall requires up to four stages.

1. The client sends the transmission order to eCall.
2. eCall sends a result message to the client.
3. eCall sends notification to the client, when requested (not possible at the moment, see other connection).
4. eCall sends a reply to the mobile recipient, when requested (not possible at the moment, see other connection).

4 Message Formats

4.1 General Information

All messages consist of a command word and a parameter list. The specific elements of a message are separated from each other by the "&" symbol. Parameter ID and Value are separated by the equals sign. The order is completed with CR LF. The Parameter IDs are *case insensitive*, i.e. it does not matter if you use upper or lower case letters. Special characters in strings have to be specified through the usual hexadecimal notification (e.g. %20 is the space character etc.).

General Format:
ECALLURL.ASP?WCI=Interface&[Function]=[Command]&[Parameter 1]=[Parameter 1 Value]&[Parameter 2]=[Parameter 2 Value]

4.2 Transmission Order for Text Messages

Command	
SendPage	Command for a text message.
Must Parameter	
Address	Complete pager or mobile phone number (internat. format), or a list of numbers divided by a semicolon, or a name of a person or a group specified in the address book of the eCall account.
Message	Text to be displayed on the pager/mobile phone, cannot contain any „&“ or „=“ characters. CrLfs must be replaced with the <**CR**> und <**LF**> characters.
AccountName	Name of the eCall business account.
AccountPassword	Password for the eCall business account.
Optional Parameter	
JobID	Definite identification of the message.
Expanded Functions	
CallBack	Callback number only applicable for mobile phones, up to 16 numerical or up to 11 alphanumerical characters possible. **You cannot use a business number as a callback number!**
Answer	Answer function with eCall (mobile phone or pager number, e-mail or IP address, “ ” in the logbook) only applicable for mobile phones. *Note*: If the “Answer” parameter is transmitted, then the “Callback” value is ignored.
Notification	Receiving address for notification, as soon as the mobile phone recipient has received the message (mobile phone or pager number, e-mail or IP address, “ ” in the logbook).

AlwaysNotification	Receiving address for notification, as soon as something has changed in the notification status (pager or mobile phone). *Note*: If the "AlwaysNotification" parameter is transmitted, the "notification" parameter is not needed.
SendDate	Determines the sending time of the order, in the case of delayed sending (yyyy-mm-dd hh:mm:ss).
MsgType	Delivery option for a specific type of message. Defined types are: - Flash -> Flash-SMS - PrioSMS+ -> PrioSMS+
NoLog	Set the parameter to 1, so that the message will not be written in the log.

Examples

ECALLURL.ASP?WCI=Interface&Function=SendPage&Address=+41791112233&Message=Hello World&AccountName=xxx&AccountPassword=yyy

ECALLURL.ASP?WCI=Interface&Function=SendPage&Address=+41791112233&Message=Hello World&AccountName=xxx&AccountPassword=yyy&AllwaysNotification=name@domain.ch&Answer=name@domain.ch

ECALLURL.ASP?WCI=Interface&Function=SendPage&Address=+41791112233&Message=Hello World&AccountName=xxx&AccountPassword=yyy&CallBack=+41791234567&Notification=192.168.0.56/15300&SendDate=2004-12-20%2020:31:50&JobID=123AB

ECALLURL.ASP?WCI=Interface&Function=SendPage&Address=+41791112233&Message=Hello World&AccountName=xxx&AccountPassword=yyy&MsgType=Flash&NoLog=1

Note

The contents of notification or a reply to a mobile phone, pager, or an e-mail address are restricted to the status of the notification or the reply of the recipient. An exception is the JobID, if this parameter was used, in which case it will be put in at the end of an e-mail text.

4.3 Transmission Order for Fax messages

Command	
SendFax	Command for a fax message.
Must Parameter	
Address	Complete fax number (internat. format), or a list of numbers devided by a semicolon, or a name of a person or a group specified in the address book of the eCall account.
Message	Fax message text, cannot contain any „&“ or „=“ characters. CrLfs must be replaced with the <**CR**> and <**LF**> characters.
AccountName	Name of the eCall Business account.
AccountPassword	Password for the eCall Business account.
Optional Parameter	
JobID	Definite message identification.
Expanded Functions	
CallingNumber	Sendernumber.
Subject	Subject.
FaxHeaderID	Sender in fax header.
FaxHeaderInfo	Info in fax header.
SendDate	Determines the sending time of the order, in the case of delayed sending (yyyy-mm-dd hh:mm:ss).
MaxRetries	Number of retries.
RetriesTimeIntervallInMin	Delay between retries.
NoCoversheet	Use no coversheet.

Examples

ECALLURL.ASP?WCI=Interface&Function=SendFax&Address=+41447873071&Message=Testmessage&AccountName=xxx&AccountPassword=yyy

ECALLURL.ASP?WCI=Interface&Function=SendFax&Address=+41447873071&Subject=Test&Message=Testmessage&AccountName=xxx&AccountPassword=yyy&FromText=+41431234576&SendDate=2009-12-20%2020:50&JobID=123AB

4.4 Transmission Order for Voice Messages

Command

SendVoice	Command for a voice message.

Must Parameter

Address	Complete number (internat. format).
Message	Fax message text, cannot contain any „&“ or „=“ characters. CrLfs must be replaced with the <**CR**> und <**LF**> characters.
AccountName	Name of the eCall Business account.
AccountPassword	Password for the eCall Business account.

Optional Parameter

JobID	Definite message identification.

Expanded Functions

MessageLanguage	Determines the language in which the text is read out. The language parameters are as follows: German=DE, French=FR, Italian=IT, English=EN Default: Language is automatically recognized.
FromText	Contains the client’s name, which is read out before the message.
SendDate	Determines the sending time of the order, in the case of delayed sending (yyyy-mm-dd hh:mm:ss).

Examples

ECALLURL.ASP?WCI=Interface&Function=SendVoice&Address=+41447873070&Message=Testmessage&AccountName=xxx&AccountPassword=yyy

ECALLURL.ASP?WCI=Interface&Function=SendVoice&Address=+41447873070&FromText=John%20Doe&Message=Testmessage&AccountName=xxx&AccountPassword=yyy&MessageLanguage=FR&SendDate=2009-12-20%2020:50&JobID=123AB

4.5 Result Message for Send Requests

Command

ResultPage	Command for a result message.

Must Parameter

ResultCode	Result code (according to paragraph error codes).
ResultText	Result in cleartext (according to paragraph error codes).

Optional Parameter

JobID	Definite message identification, if it was included in the transmission order.

Example

ResultPage ResultCode:0 ResultText:

Please note that the result message only shows that the transmission order was accepted by eCall. It does not say whether or not the order was successfully transmitted to the appropriate call center or to the recipient. eCall provides other mechanisms via other connections for this purpose.

4.6 Message Buffer

In order to use the commands *GetNextMessage* and *DeleteMessage*, the message buffer has to be activated on the website. Otherwise the incoming messages are not written into the buffer and cannot be included retrospectively. The buffer can be activated under "SMS receipt" → "3. Set forward options" by setting up a forwarding.

4.6.1 Query for new messages

This command reads in the oldest message received on the private SMS number. In addition, a unique identification number is provided, which is used to delete the message from the buffer again.

Optionally, the rented cell phone number can be indicated. If this is the case, the oldest message, which arrived at this number is returned. If there is no option "Mobile Number", the oldest message of all rented numbers from that account will be returned.

Command

GetNextMessage	Command for next message in buffer.

Must-parameter

Account Name	Name of the eCall business account.
Account Password	Password of the eCall business account.

Optional Parameter

MobileNumber	Rent number (international format)

Example

ECALLURL.ASP?WCI=Interface&Function=GetNextMessage&AccountName=xxx&AccountPassword=yyy

ECALLURL.ASP?WCI=Interface&Function=GetNextMessage&AccountName=xxx&AccountPassword=yyy&MobileNumber=+41763331111

Answer for GetNextMessage

The answer structures are no longer based on an own eCall protocol, but have a XML structure as a basis. For example, if there is no message in the buffer, the result is returned as status 11204 (“No new incoming message available”), and SMS-node is not shown.

Structure (without content)

```
<IncomingSMS>
        <Result>
                <ResultCode></ResultCode>
                <ResultText></Resulttext>
        </Result>
        <MessageID></MessageID>                 (-> for deleting the message)
        <SMS>
                <Message></Message>
                <AddressTo></AddressTo>         (international format)
                <AddressFrom></AddressFrom>     (international format)
                <TimeStamp></Timestamp>         (format: dd.mm.yyyy hh: mm: ss)
        </SMS>
</IncomingSMS>
```

4.6.2 Deleting messages from the message buffer

This command deletes the message from the message buffer, but not from the account. The message is still visible on the website under "Received messages".

Command

DeleteMessage	Command for a text message.

Must-parameter

Account Name	Name of the eCall business account.
Account Password	Password of the eCall business account.
MessageID	From eCall set ID of the message (contained in the answer of GetNextMessage call)

Example

ECALLURL.ASP?WCI=Interface&function=DeleteMessages&AccountName=xxx&Password=yyy&AccountMessageID=zzz

Answer for DeleteMessage

This response structure describes, whether a message has been successfully deleted from the message buffer. It looks like this:

Structure (without content)

```
<DeleteMsg>
        <Result>
                <ResultCode></ResultCode>
                <ResultText></Resulttext>
        </Result>
</DeleteMsg>
```

5 Error codes

ErrorCode	ErrorText	Description
11000	SyntaxError	SyntaxError
11001	PermissionDenied	Access is denied
11100	AdrAdCInvalid	Invalid or incorrect recipient's address
11101	AdrNAdInvalid	Invalid or incorrect confirmation address
11102	AdrAdCMissing	Recipient address missing
11103	AdrNAdMissing	Notification address missing
11104	AdrAdCTooMany	Too many recipient addresses transmitted
11105	AdrAdCNotAllowed	Recipient address is not within defined area
11200	MsgNoCharacters	No message existent
11201	MsgInvalidCharacters	Invalid characters in the message
11202	MsgSendTimeInvalid	Invalid sending time given
11203	MsgSendTimeNotAllowed	Sending time is not within time slot
11204	MsgNoNewMsg	No new incoming message available
11300	AccNoUser	Unknown user
11301	AccNoUnits	Not enough credits in account
11303	AccNoFreeUnits	Not enough free credits in account
11400	CallSystemInvalid	Invalid call system
11401	CallSystemInvalidForUser	Invalid call system for this user
11402	CallSystemNotSupported	Call system is not supported
11403	CallSystemConfused	Call system is temporarily out of order
11500	IDMissing	ID is missing
11501	IDInvalid	ID could not be found
11502	IDDoesNotExist	ID does not exist in the system
11600	StateAlreadyTransmitted	Message already transmitted
11700	DataReadError	Data contents could not be read
11800	CBMsgError	Callback contains a forbidden number or text
11911	JobIDRequired	The status request does not contain a JobID
11912	JobIDNotFound	No job was found with the supplied ID

6 Connection

6.1 Addresses for Send Requests (Client -> eCall)

eCall's URL-access is presently configured as follows:

Decoded Access

Generally:	http://www.ecall.ch/ecallurl/ecallurl.ASP?WCI=Interface....
Server 1 directly:	http://www1.ecall.ch/ecallurl/ecallurl.ASP?WCI=Interface....
Server 2 directly:	http://www2.ecall.ch/ecallurl/ecallurl.ASP?WCI=Interface....

Encoded/Encrypted Access

Generally:	https://www.ecall.ch/ecallurl/ecallurl.ASP?WCI=Interface...
Server 1 directly:	https://www1.ecall.ch/ecallurl/ecallurl.ASP?WCI=Interface...
Server 2 directly:	https://www2.ecall.ch/ecallurl/ecallurl.ASP?WCI=Interface...

6.2 IP Adress of Answers or Incomings (eCall -> Client)

Source IP Address:	193.93.208.200
Source-Port:	undefined (open; 0 till 65535)

7 Identification

eCall only accepts orders if the sender can be identified. The following criteria can selectively be used in order to identify the sender:

- Refferer field in HTTP Header
- Account name and password

These criteria can, as a matter of course, also be combined. Please contact us for further identification possibilities.

8 Access Test

You can use your webbrowser in order to conduct a simple access test. Please note the requirements for the use of access. In addition, you must know if the account name and the account password are necessary for identification (can also be turned off).

1. Start-up your browser.
2. Copy the following URL in your browser to the address field.

   http://www1.ecall.ch/ecallurl/ecallurl.asp?wci=Interface&Function=SendPage&Address=0740342686&Message=Test&AccountName=foo&AccountPassword=bar

   Please note that the values for AccountName and AccountPassword need to be set to your values.
3. You will receive a reply as described in section 4.5.

9 Appendix

Character set for SMS
In order to send special characters/umlauts, the standard encoding (% plus ANSI character set in HEX code) as it is used for a URL that can be applied.
Example of a space: "John Smith" -> "John% 20Smith".

HEX	char	HEX	char	HEX	char	HEX	char	HEX	char	HEX	char	HEX	char	HEX	char
0	?	**20**	**SP**	**40**	**@**	**60**	**`**	**80**	**€**	A0	?	C0	A	**E0**	**à**
1	?	**21**	**!**	**41**	**A**	**61**	**a**	81	?	**A1**	**¡**	C1	A	E1	a
2	?	**22**	**"**	**42**	**B**	**62**	**b**	82	?	A2	?	C2	A	E2	a
3	?	**23**	**#**	**43**	**C**	**63**	**c**	83	?	**A3**	**£**	C3	A	E3	a
4	?	**24**	**$**	**44**	**D**	**64**	**d**	84	?	**A4**	**¤**	**C4**	**Ä**	**E4**	**ä**
5	?	**25**	**%**	**45**	**E**	**65**	**e**	85	?	**A5**	**¥**	**C5**	**Å**	**E5**	**å**
6	?	**26**	**&**	**46**	**F**	**66**	**f**	86	?	A6	?	**C6**	**Æ**	**E6**	**æ**
7	?	**27**	**'**	**47**	**G**	**67**	**g**	87	?	**A7**	**§**	C7	ç	E7	c
8	?	**28**	**(**	**48**	**H**	**68**	**h**	88	?	A8	?	C8	E	**E8**	**è**
9	?	**29**	**)**	**49**	**I**	**69**	**i**	89	?	A9	?	**C9**	**É**	**E9**	**é**
0A	**LF**	**2A**	*****	**4A**	**J**	**6A**	**j**	8A	S	AA	?	CA	E	EA	e
0B	?	**2B**	**+**	**4B**	**K**	**6B**	**k**	8B	?	AB	?	CB	E	EB	e
0C	?	**2C**	**,**	**4C**	**L**	**6C**	**l**	8C	?	AC	?	CC	I	**EC**	**ì**
0D	**CR**	**2D**	**-**	**4D**	**M**	**6D**	**m**	8D	?	AD	?	CD	I	ED	i
0E	?	**2E**	**.**	**4E**	**N**	**6E**	**n**	8E	Z	AE	?	CE	I	EE	i
0F	?	**2F**	**/**	**4F**	**O**	**6F**	**o**	8F	?	AF	?	CF	I	EF	i
10	?	**30**	**0**	**50**	**P**	**70**	**p**	90	?	B0	?	D0	?	F0	?
11	**DC1**	**31**	**1**	**51**	**Q**	**71**	**q**	91	?	B1	?	**D1**	**Ñ**	**F1**	**ñ**
12	?	**32**	**2**	**52**	**R**	**72**	**r**	92	?	B2	?	D2	O	**F2**	**ò**
13	?	**33**	**3**	**53**	**S**	**73**	**s**	93	?	B3	?	D3	O	F3	o
14	?	**34**	**4**	**54**	**T**	**74**	**t**	94	?	B4	?	D4	O	F4	o
15	?	**35**	**5**	**55**	**U**	**75**	**u**	95	?	B5	?	D5	O	F5	o
16	?	**36**	**6**	**56**	**V**	**76**	**v**	96	?	B6	?	**D6**	**Ö**	**F6**	**ö**
17	?	**37**	**7**	**57**	**W**	**77**	**w**	97	?	B7	?	D7	?	F7	?
18	?	**38**	**8**	**58**	**X**	**78**	**x**	98	?	B8	?	**D8**	**Ø**	**F8**	**ø**
19	?	**39**	**9**	**59**	**Y**	**79**	**y**	99	?	B9	?	D9	U	**F9**	**ù**
1A	?	**3A**	**:**	**5A**	**Z**	**7A**	**z**	9A	s	BA	?	DA	U	FA	u
1B	?	**3B**	**;**	**5B**	**[**	**7B**	**{**	9B	?	BB	?	DB	U	FB	u
1C	?	**3C**	**<**	**5C**	****	**7C**	**|**	9C	?	BC	?	**DC**	**Ü**	**FC**	**ü**
1D	?	**3D**	**=**	**5D**	**]**	**7D**	**}**	9D	?	BD	?	DD	Y	FD	y
1E	?	**3E**	**>**	**5E**	**^**	**7E**	**~**	9E	z	BE	?	DE	?	FE	?
1F	?	**3F**	**?**	**5F**	**_**	7F	?	9F	Y	**BF**	**¿**	**DF**	**ß**	FF	y